

WPI

TI - Transparent paint composition - consisting of inorganic particles having specified Moh's hardness and reflective index and (meth)acryloyl containing monomer

AB - J10330647 A transparent paint composition comprises inorganic particle (A) having a new Mohs' hardness of at least 10 and av. dia. of 20-200 microns, inorganic particle (B) having different compsn. from (A), reflective index of 1.40-1.60, a new Moh's hardness of at least 5 and av. dia. of up to 20 microns, and a monomer having (meth)acryloyl gp. Also claimed are: (a) the compsn. further comprises a resin contg. (meth)acryloyl gp. (b) the compsn. comprises 1.5-17.5 wt.% (A) and 23.5-65.5 wt.% (B). (c) the resin contg. (meth)acryloyl gp. is at least one of a resin of epoxy(meth)acrylate, urethane(meth)acrylate and polyester(meth)acrylate. (d) a method for curing the compsn. comprises irradiating an activated energy rays.

- USE - The paint compsn. is used for applying to a substrate including decorative board etc.

- ADVANTAGE - The compsn. can be cured by irradiation of activated energy rays in a short time and gives a film having improved surface hardness, scratch resistance, wear and abrasion resistance and transparency.

- (Dwg.0/0)

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PA - (JAPC) NIPPON SHOKUBAI CO LTD

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PAJ

TI - TRANSPARENT COATING COMPOSITION AND CURING THEREOF

AB - PROBLEM TO BE SOLVED: To obtain a composition curable in a short time under energy beam irradiation and capable of giving coating films excellent in hardness, etc., by including inorganic particles having each specific hardness and size, inorganic particles differing in composition from the former inorganic particles and having each specific refractive index, hardness and size, and a specific monomer.

- SOLUTION: This transparent coating composition is obtained by including 1,5-17.5 wt.% of inorganic particles A>=10 in new Moh's hardness and 20-200 &mu m in average size, 23.5-65.5 wt.% of inorganic particles B differing in composition from the particles A, 1.40-1.60 in refractive index, >5 in new Moh's hardness and <20 &mu m in average size, and a (meth)acryloyl group-bearing monomer, and pref. furthermore, a resin such as epoxy(meth)acrylate, urethane(meth) acrylate or polyester(meth)acrylate.

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PA - NIPPON SHOKUBAI CO LTD

IN - YAMAZAKI TAKEHIDE

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